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Supporting Information

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Supporting Information

for

Molecular Assembly of an Aptamer-Drug Conjugate for Targeted Drug Delivery to Tumor Cells

Yu-Fen Huang, Dihua Shangguan, Haipeng Liu, Joseph A. Phillips , Xiaoling Zhang, Yan Chen and Weihong Tan*

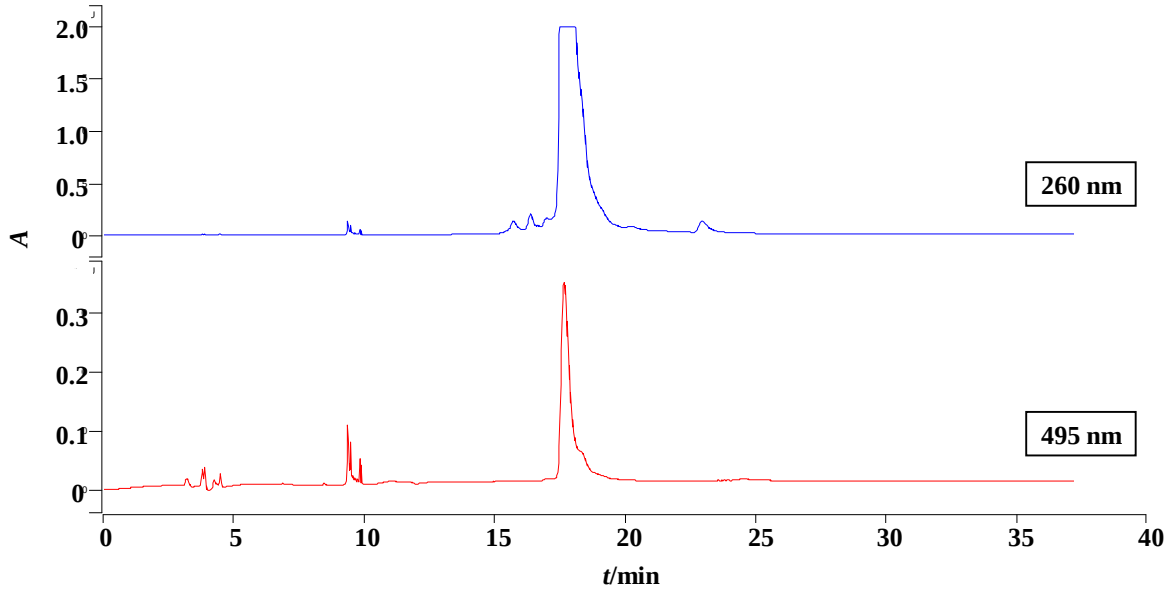
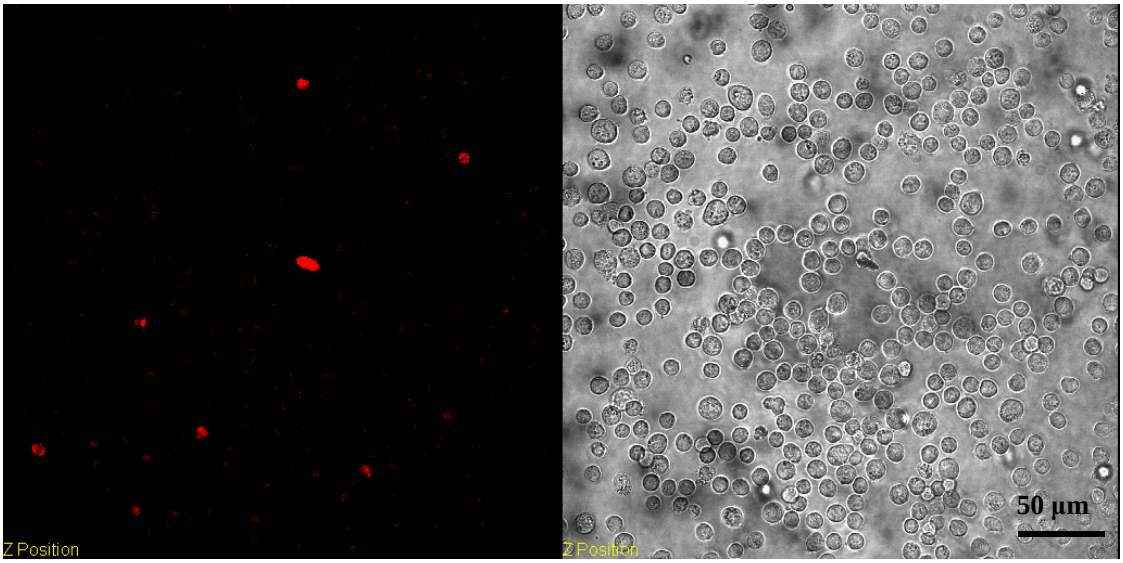


Figure S1. HPLC chromatogram of sgc8c-Dox conjugate.



TDO5-Dox **transmission**

Figure S2. Confocal image of CCRF-CEM cells incubated with TDO5-Dox (0.5 µM) in culture medium without FBS at 37 ℃, 5% CO_2 for 2 h. The fluorescence images were monitored in TDO5-Dox channel and bight field channel, respectively.

Synthesis of sgc8c-3DOX conjugates. Briefly, 100 nmol of amino-terminated sgc8c in PBS (500 µL, pH 7.4) was added to 20 µmol of the succinimide 3-maleimidopropanoate (BMPS) dissolved in DMF (500 µL) and agitated at room temperature for 4 h. BMPS was then removed by G-25 Sephadex size-exclusion column equilibrated with PBS. Finally, 15.6 mL of pentaerythritol tetrakis (2-mercaptoacetate) was added, and the resultant solution was agitated overnight at room temperature. Before Dox conjugation, the product was purified by HPLC followed by the similar procedure for the synthesis of sgc8c-Dox conjugates.